Haverhill, MA (978) 914-4097

Nicholas Zuber

https://nickzuber.com

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SKILLS

Programming Languages & Frameworks

Proficient in: JavaScript, OCaml, Python, C++, React/Redux, React Native, Node.js

Experienced with: C, PHP, Java, Racket, Scheme

EXPERIENCE

Box Redwood City, CA

Software Engineering Intern

June 2017 – Present

- Assisted in maintaining ClusterRunner, an open source tool that parallelizes and optimizes test suites for over 100,000 different types of tests internally and is used thousands of times each day
- Restructured and implemented media type versioning for the existing RESTful API in ClusterRunner
- Implemented a caching layer to persist logs and other useful information between restarts

Robin Boston, MA

Software Engineering Intern

May 2016 - Aug. 2016

- Helped build and maintain mobile applications for Android and iOS platforms for thousands of users
- Utilized knowledge of string distance algorithm to build custom approximate string matching module derived with memory efficient alterations, to enhance user experience with search fields
- Applied functional paradigms to take advantage of Redux and to produce testable, deterministic code

Veranda Outdoors Haverhill, MA

Software Developer

May 2015 – Aug. 2015

- Led a small team of developers to coordinate projects and work flows to increase productivity
- Adapted to legacy software and seamlessly introduced modern software into the ecommerce platform
- Created practical and user friendly wholesale ordering platform for hundreds of important customers

OPEN SOURCE PROJECTS

Infrared (static analyzer)

Jan. 2017 – Present

- Constructed a parser using OCaml that transformed JavaScript files into strict abstract syntax trees adhering to Shift specifications
- Statically analyzed Shift abstract syntax trees into a graph of nodes to efficiently infer a type system across an entire given project and produce intelligent error messages
- Built automated testing infrastructure to help easily create and run test suites to ensure correctness of the program

Needle (library) Sept. 2015 – Present

- Worked intimately with a wide variety of both commonly used data structures (hash map, k-ary tree, etc.) and more esoteric data structures (rolling hash, bit array, etc.) using JavaScript
- Produced benchmarks to analyze the performance of individual components throughout the library and various types of unit testing for quality assurance
- Optimized software performance to produce a flexible, lightweight product

EDUCATION

University of Massachusetts Lowell

Spring 2018

Bachelor of Science in Computer Science, Minor in Mathematics

Major GPA: 3.51

Relevant Courses: Data Structures, Algorithms Analysis, Functional Programming,

Operating Systems, Discrete Mathematics, Probability and Statistics

Honors: Deans List, UMass Amherst Book Award for Computer Science

Activities: Member of Modern JavaScript Society, Captain of Intramural Soccer Team

Hackathons: HackHarvard, CODEX MIT Media Lab, Hackbeanpot, Hawkathon